

Launch Mission Execution Forecast

Falcon 9 CRS-22 Mission:

Issued: 31 May 2021 / 0900L (1300Z)

Valid: 3 June 2021 / 1324 – 1334L (1724 – 1734Z)



Forecast Discussion: A weak surface front situated across the region this Memorial Day remains the focus for showers and thunderstorms. However, this boundary will wash out over the next couple of days while a trough aloft gradually fills through midweek. This will allow surface high pressure across the central Atlantic to build across the region this week, resulting in progressively deeper southeasterly flow. While late night and morning showers are expected to roll onshore in this regime, afternoon activity should be focused along a rapidly westward moving seabreeze to the west of the Spaceport for mid-to-late week. Remnant clouds and scattered showers during the late morning may attempt to persist later, especially on Delay Day. Thus the main weather concerns for both Launch Day and Delay Day are the Cumulus Cloud Rule and Flight Through Precipitation.

		Probability of Violating Weather Constraints								
20% Primary Concerns: Cumulus Cloud Rule, Flight Through Precipitation										
Weather Conditions Weather/Visibility: Isol showers / 7 mi. Type Coverage Base (ft) Tops (ft)							Additional Risk Criteria			
Weather/Visibility:		Isol showers /7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low		
Гетр/Humidi	ity:	85°F / 68%	Cumulus	Scattered	3,000	9,000	Booster Recovery Weather:	Low		
Liftoff Winds (200') : 130° 15 - 20 mph							Solar Activity:	Low		
Probability of Violating Weather Constraints 30% Primary Concerns: Cumulus Cloud Rule, Flight Through Precipitation										
30% Primary Concerns: Cumulus Cloud Rule, Flight Through Precipitation										
Weather Conditions Weather/Visibility: Isol showers / 7 mi. Temp/Humidity: 84°F / 73% Tops (ft) Cumulus Scattered 3,000 11,000							Additional Risk Criteria			
Weather/Visibility:		Isol showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low		
Гетр/Humidi	ity:	84°F / 73%	Cumulus	Scattered	3,000	11,000	Booster Recovery Weather:	Low		
Liftoff Winds	(200'):	140° 15 - 20 mph					Solar Activity:	Low		
T(emp/Humidi iftoff Winds 30% /eather/Visil emp/Humidi iftoff Winds	emp/Humidity: iftoff Winds (200'): 30% Prima //eather/Visibility: emp/Humidity: iftoff Winds (200'):	/eather/Visibility: Isol showers / 7 mi. emp/Humidity: 85°F / 68% iftoff Winds (200'): 130° 15 - 20 mph Proba Primary Concerns: Cum Weather //eather/Visibility: Isol showers / 7 mi.	/eather/Visibility: Isol showers / 7 mi. emp/Humidity: 85°F / 68% Cumulus Probability of V Primary Concerns: Cumulus Cloud R Weather Condition /eather/Visibility: Isol showers / 7 mi. emp/Humidity: 84°F / 73% Italian Type Cumulus Type Cumulus Type Cumulus	/eather/Visibility: Isol showers / 7 mi. emp/Humidity: 85°F / 68% Probability of Violating Weather Conditions Weather Conditions /eather/Visibility: Isol showers / 7 mi. /eather/Visibility: Isol showers / 7 mi. /eather/Visibility: 84°F / 73% iftoff Winds (200'): 140° 15 - 20 mph	//eather/Visibility: Isol showers / 7 mi. Probability of Violating Weather Probability of Violating Weather	//eather/Visibility: Isol showers / 7 mi. Probability of Violating Weather Constrains	// Jeather/Visibility: Isol showers / 7 mi. Type Coverage Base (ft) Tops (ft) Booster Recovery Weather: Clouds		

Next Forecast Will Be Issued

1 JUN 2021